



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY
1200 Pennsylvania Avenue, N.W.
WASHINGTON, D.C. 20460

Paperwork Reduction Act Notice: The public reporting burden for this collection of information is estimated to average 1.25 hours per response for registration and 0.25 hours per response for reregistration and special review activities, including time for reading the instructions and completing the necessary forms. Send comments regarding burden estimate or any other aspect of this collection of information, including suggestions for reducing the burden to: Director, Collection Strategies Division (2822T), U.S. Environmental Protection Agency, 1200 Pennsylvania Avenue, N.W., Washington, DC 20460. Do not send the complete form to this address.

Certification with Respect to Citation of Data

Applicant's/Registrant's Name, Address, and Telephone Number Oriental (Luzhou) Agrochemicals Co., Ltd. c/o Pyxis Regulatory 4110 136th St. Ct. NW Gig Harbor, WA 253-853-7369	EPA Registration Number/File Symbol/ 89858
Active Ingredient(s) and/or representative test compound(s) Carfentrazone-ethyl	Date Oct. 04, 2017
General Use Pattern(s) (list all those claimed for this product using 40 CFR Part 158) TGAI	Product Name Maxunitech Carfentrazone-Ethyl Technical

NOTE: If your product is a 100% repackaging of another purchased EPA-registered product labeled for all the same uses on your label, you do not need to submit this form. You must submit the Formulator's Exemption Statements (EPA Form 8570-27).

☐ I am responding to a Data-Call-In Notice, and have including with this form a list of companies send offer of compensation (the Data Matrix form should be used for this purpose).

SECTION I: METHOD OF DATA SUPPORT (Check one method only)

☐ I am using the cite-all method of support, and have included with this form a list of companies sent offers of compensation (the Data Matrix form should be used for this purpose).

☒ I am using the selective method of support (or cite-all option under the selective method), and have included with this form a completed list of data requirements (the Data Matrix form must be used).

SECTION II: GENERAL OFFER TO PAY

[Required if using the cite-all method or when using the cite-all option under the selective method to satisfy one or more data requirements]

☐ I hereby offer and agree to pay compensation, to other persons, with regard to the approval of this application, to the extent required by FIFRA.

SECTION III: CERTIFICATION

I certify that this application for registration, this form for reregistration, or this Data-Call-In response is supported by all data submitted or cited in the application for registration, the form for reregistration, or the Data-Call-In response. In addition, if the cite-all option or cite-all option under the selective method is indicated in Section I, this application is supported by all data in the Agency's files that (1) concern the properties or effects of this product or an identical or substantially similar product, or one or more of the ingredients in this product; and (2) is a type of data that would be required to be submitted under the data requirements in effect on the date of approval of this application if the application sought the initial registration of a product of identical or similar composition and uses.

I certify that for each exclusive use study cited in support of this registration or reregistration, that I am the original data submitter or that I have obtained the written permission of the original data submitter to cite that study.

I certify that for each study cited in support of this registration or reregistration that is not an exclusive use study, either: (a) I am the original data submitter; (b) I have obtained the permission of the original data submitter to use the study in support of this application; (c) all periods of eligibility for compensation have expired for the study; (d) the study is in the public literature; or (e) I have notified in writing the company that submitted the study and have offered (I) to pay compensation to the extent required by sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA; and (II) to commence negotiations to determine the amount and terms of compensation, if any, to be paid for the use of the study.

I certify that in all instances where an offer of compensation is required, copies of all offers to pay compensation and evidence of their delivery in accordance with sections 3(c)(1)(F) and/or 3(c)(2)(B) of FIFRA are available and will be submitted to the Agency upon request. Should I fail to produce such evidence to the Agency upon request, I understand that the Agency may initiate action to deny, cancel or suspend the registration of my product in conformity with FIFRA.

I certify that the statements I have made on this form and all attachments to it are true, accurate, and complete. I acknowledge that any knowingly false or misleading statement may be punishable by fine or imprisonment or both under applicable law.

Signature 	Date Oct. 04, 2017	Typed or Printed Name and Title Ann M. Tillman Senior Regulatory Consultant
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Form Approved OMB No. 2070-0060

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DATA MATRIX

Date: Oct. 4, 2018


EPA Reg. No./ File Symbol: 89858-

Page 1 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
Product Specific Data Requirements					
830.1550	Product Identity and Composition	50680501	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1600	Description of Materials Used to Produce the Product	50680501	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1620	Description of Production Process	50680501	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1650	Description of Formulation Process				Not required ¹
830.1670	Discussion of Formation of Impurities	50680501	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1700	Preliminary Analysis	50680502	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1750	Certified Limits	50680501	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.1800	Enforcement Analytical Method	50680502	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6302	Color	50680503	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6303	Physical State	50680503	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6304	Odor	50680503	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6313	Stability to Normal and Elevated Temperatures, Metals, and Metal Ions	50680504	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6314	Oxidation/Reduction: Chemical Incompatibility	50680512	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6315	Flammability	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	PL/OWN	
830.6316	Explosibility	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	Waiver ²
830.6317	Storage Stability	50680504	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6319	Miscibility	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	Not applicable ³
Signature 			Name and Title Ann M. Tillman, Consultant		Date Oct. 4, 2018

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 2 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.6320	Corrosion Characteristics	50680504	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.6321	Dielectric Breakdown Voltage				Not applicable ⁴
830.7000	pH	50680506	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7050	UV/Visible Absorption	50680507	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7100	Viscosity	50680513	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7200	Melting Point/Melting Range	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	PL/OWN	
830.7220	Boiling Point/Boiling Range	50680508	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7300	Density/Relative Density/Bulk Density	50680509	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7370	Dissociation Constants in Water	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	Waiver ⁵
830.7520	Particle Size, Fiber Length, and Diameter Distribution	50680514	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	Waiver ⁶
830.7550	Partition Coefficient (n-octanol/water), Shake Flask Method	50680510	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7560	Partition Coefficient (n-octanol/water), Generator Column Method				See 830.7550
830.7570	Partition Coefficient (n-octanol/water), Estimation by Liquid Chromatography				See 830.7550
830.7840	Water Solubility: Column Elution Method; Shake Flask Method	50680505	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
830.7860	Water Solubility, Generator Column Method				See 830.7840

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 3 of 35

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Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
830.7950	Vapor Pressure	50680511	Oriental (Luzhou) Agrochemicals Co. Ltd.	OWN	
870.1100	Acute Oral Toxicity: Rat	43189207		OLD	See endnote ⁷
870.1200	Acute Dermal Toxicity: Rat	43189209		OLD	See endnote ⁸
870.1300	Acute Inhalation Toxicity: Rat	43189211		OLD	See endnote ⁹
870.2400	Primary Eye Irritation: Rabbit	43189213		OLD	See endnote ¹⁰
870.2500	Primary Dermal Irritation	43189215		OLD	See endnote ¹¹
870.2600	Dermal Sensitization	43189217		OLD	See endnote ¹²
Generic Data Requirements					
850.2100	Acute Avian Oral Toxicity	43189225 49397611	FMC Corporation	OLD PAY	See endnote ¹³
850.2200	Acute Avian Dietary Toxicity	43189226 43189227		OLD OLD	See endnote ¹⁴
850.2400	Wild Mammal Toxicity				Not required/ See 870 series
850.2300	Avian Reproductive Toxicity	44419002 44419003		OLD OLD	See endnote ¹⁵
850.2500	Simulated or Actual Field Testing				Not required

Signature

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Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1075	Freshwater Fish Toxicity	43189228 43189229 44165009 44165013 44165015 44176105 49397607	FMC Corporation	OLD OLD OLD OLD OLD OLD PAY	See endnote ¹⁶
850.1010	Freshwater Invertebrate Toxicity	43189230 44165007 44165011 44165016 44176103		OLD OLD OLD OLD OLD	See endnote ¹⁷
850.1025, 850.1035, 850.1045, 50.1055, 850.1075	Acute Toxicity Estuarine and Marine Organisms	44165003 44165004 44165005 49397606 49397608	FMC Corporation FMC Corporation	OLD OLD OLD PAY PAY	See endnote ¹⁸
850.1300	Aquatic Invertebrate Life Cycle (Freshwater)	44419006 49397609	FMC Corporation	OLD PAY	See endnote ¹⁹
850.1350	Aquatic Invertebrate Life Cycle (Saltwater)	49397610	FMC Corporation	PAY	See endnote ²⁰

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Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 5 of 35
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Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.1400	Fish Early Life Stage (Freshwater)	44424201 44963201 46037001		OLD OLD OLD	See endnote ²¹
850.1400	Fish Early Life Stage (Saltwater)				Not required/ Waived ²²
850.1500	Life Cycle Fish				Not required/ Waived ²³
850.1710, 850.1730, 850.1850	Aquatic Organisms Bioavailability, Biomagnification, Toxicity	44165042		OLD	See endnote ²⁴
850.1950	Simulated or Actual Field Testing for Aquatic Organisms				Not required
850.1735	Whole Sediment: Acute Freshwater Invertebrates				Waived ²⁵
850.1740	Whole Sediment: Acute Marine Invertebrates				Waived ²⁶
N/A	Whole Sediment: Chronic Invertebrates Freshwater and Marine				Not required
850.3020	Honey Bee Acute Contact Toxicity	44176108 44633502		OLD OLD	See endnote ²⁷
850.3030	Honeybee Toxicity of Residues on Foliage				See endnote ²⁸
850.3040	Field Testing for Pollinators				See endnote ²⁸
N/A	Honey Bee Adult Acute Oral Toxicity				See endnote ²⁸
N/A	Honey Bee Larvae Acute Oral Toxicity				See endnote ²⁸

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 6 of 35

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Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
N/A	Honey Bee Adult Chronic Oral Toxicity				See endnote ²⁸
N/A	Honey Bee Larvae Chronic Oral Toxicity				See endnote ²⁸
N/A	Field Trial of Residues in Pollen and Nectar				See endnote ²⁸
N/A	Semi-field Testing for Pollinators				See endnote ²⁸
870.6100	Delayed Neurotoxicity (Acute) – Hen				Not required
870.6200	Acute Neurotoxicity – Rat	44165024		OLD	See endnote ²⁹
870.3100	90-Day Oral: Rodent	43189220 43829706 44165019		OLD OLD OLD	See endnote ³⁰
870.3150	90-Day Oral: Non-Rodent	43869201		OLD	See endnote ³¹
870.3200	21/28-Day Dermal Toxicity	44165020		OLD	See endnote ³²
970.3250	90-Day Dermal Toxicity				Not required
870.3465	90-Day Inhalation Toxicity				Not required ³³
870.6100	28-Day Delayed Neurotoxicity Hen				Not required
870.6200	90-Day Neurotoxicity	44165021 44165025		OLD OLD	See endnote ³⁴
870.4100	Chronic Oral Rodent	44076501		OLD	See endnote ³⁵

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Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 7 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.4200	Carcinogenicity	44076501 44165023		OLD OLD	See endnote ³⁶
870.3700	Reproduction/Developmental Toxicity Screening Test	43829707 43829708 43829709 43829710 43829711		OLD OLD OLD OLD OLD	See endnote ³⁷
870.3800	2-Generation Reproduction: Rat	44165026 44165027		OLD OLD	See endnote ³⁸
870.6300	Developmental Neurotoxicity Study				Not required
870.5100	Bacterial Reverse Mutation Test	43189221 43829712 43849602 44165028 44165029 44165030		OLD OLD OLD OLD OLD OLD	See endnote ³⁹
870.5300, 870.5375	In vitro Mammalian Cell Assay	43189222 43189223		OLD OLD	See endnote ⁴⁰
870.5385, 870.5395, 870.5450, 870.5550	In vivo Cytogenetics and Other Effects	43189224		OLD	See endnote ⁴¹

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Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 8 of 35
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Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
870.7485	Metabolism and Pharmacokinetics	43829714		OLD	See endnote ⁴²
870.7200	Companion Animal Safety				Not required
870.7600	Dermal Penetration				Not required
870.7800	Immunotoxicity	49397613	FMC Corporation	PAY	See endnote ⁴³
875.1100	Dermal Exposure – Outdoor				See Attachment for citations
875.1200	Dermal Exposure - Indoor				Not required
875.1300	Inhalation Exposure – Outdoor				See 875.1100
875.1400	Inhalation Exposure - Indoor				Not required
875.1500	Biological Monitoring				See 875.1100
875.1600	Data Reporting and Calculations				See 875.1100
875.1700	Product Use Information				See 875.1100

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 9 of 35

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Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues	44802601		OLD	
		45005901		OLD	
		45005902		OLD	
		45005903		OLD	
		45005904		OLD	
		45005905		OLD	
		45005906		OLD	
		45005907		OLD	
		45005908		OLD	
		45005909		OLD	
		45005910		OLD	
		45005911		OLD	
		45138201		OLD	
		45138202		OLD	
		45175101		OLD	

Signature

Name and Title

Ann M. Tillman, Consultant

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Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues (cont.)	45175102	OLD	
		45175103	OLD	
		45175104	OLD	
		45175105	OLD	
		45191701	OLD	
		45224801	OLD	
		45344501	OLD	
		45432301	OLD	
		45432302	OLD	
		45432303	OLD	
		45469501	OLD	
		45469502	OLD	
		45480301	OLD	
		45480302	OLD	
		45491901	OLD	
		45491902	OLD	
		45491903	OLD	
		45491904	OLD	
		45491905	OLD	
		45530101	OLD	
		45530102	OLD	
		45530103	OLD	
		45574001	OLD	
		45726301	OLD	

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./File Symbol: 89858-

Page 11 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues (cont.)	45726302	Agricultural Reentry Task Force	OLD	
		46040301		OLD	
		46040302		OLD	
		46405901		PAY	
		46513901		PAY	
		46734001		PAY	
		46734002		PAY	
		46789301		PAY	
		46789302		PAY	
		48866801		PAY	
		49157401		PAY	
		49157402		PAY	
		49299201		PAY	
		49309201		PAY	
		44972201		OLD	
		44972202		OLD	
		44972203		OLD	
		44972204		OLD	
		44972205		OLD	
		44972206		OLD	
		44972207		OLD	
		44983501		OLD	
		45262901		OLD	
		45262902		OLD	

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Ann M. Tillman, Consultant

Date

Oct. 4, 2018



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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 12 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
875.2100	Dislodgeable Foliar Residue and Turf Transferable Residues (cont.)	45663701 45663702 45663703 46042401 46042402 46190501	Outdoor Residential Exposure Task Force	OLD OLD OLD OLD OLD PAY	
875.2200	Soil Residue Dissipation				See 875.2100
875.2400	Dermal Exposure				See 875.2100
875.2500	Inhalation Exposure				See 875.2100
875.2600	Biological Monitoring				See 875.2100
875.2700	Product Use Information				See 875.2100
875.2800	Descriptions of Human Activity				See 875.2100
875.2900	Data Reporting and Calculations				See 875.2100
875.3000	Nondietary Ingestion Exposure				See 875.2100
201-1	Droplet Size Spectrum	42565901 42608401 42907401 43254001 43485601 43485602		OLD OLD OLD OLD OLD OLD	

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 13 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product: Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum (cont.)	43485603		OLD	
		43485604		OLD	
		43493801		OLD	
		43493802		OLD	
		43508001		OLD	
		43535801		OLD	
		43535802		OLD	
		43657601		OLD	
		43657602		OLD	
		43665401		OLD	
		43665402		OLD	
		43757801		OLD	
		43757802		OLD	
		43766501		OLD	
		43766502		OLD	
		43766503		OLD	
		43766504		OLD	
		43781101		OLD	
		43803501		OLD	
		43832101		OLD	
		43832102		OLD	
		43845501		OLD	

Signature

Name and Title

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 14 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
201-1	Droplet Size Spectrum (cont.)	43845901		OLD	
		43925701		OLD	
		43953001		OLD	
		43953002		OLD	
		44010201		OLD	
		44070001		OLD	
		44100901		OLD	
		44134101		OLD	
		44178701		OLD	
		44310401		OLD	
		44640801		OLD	
		44640901		OLD	
		44641001		OLD	
		44696901		OLD	
		44747401		OLD	
		44763001		OLD	
		44878601		OLD	
		44908901		OLD	
		45536001		OLD	
		46274901	Spray Drift Task Force	PAY	
202-1	Droplet Size Spectrum	47340201	Spray Drift Task Force	PAY	See 202-1

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 15 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4100	Tier 1: Seedling Emergence	43829716 43939204 49397604	FMC Corporation	OLD OLD PAY	See endnote ⁴⁴
850.4150	Tier 1: Vegetative Vigor	43829716 49397605	FMC Corporation	OLD PAY	See endnote ⁴⁵
850.4400, 850.4500	Tier 1: Aquatic Plant Growth	43829717 43849603 43849604 43849605 43849606 44419005		OLD OLD OLD OLD OLD OLD	See endnote ⁴⁶
850.4100	Tier 2: Seedling Emergence	43829716 43939204 49397604	FMC Corporation	OLD OLD PAY	See endnote ⁴⁷
850.4150	Tier 2: Vegetative Vigor	43829716 49397605	FMC Corporation	OLD PAY	See endnote ⁴⁸

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 16 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
850.4400, 850.4500	Tier 2: Aquatic Plant Growth	43829717 43849603 43849604 43849605 43849606 44419005		OLD OLD OLD OLD OLD OLD	See endnote ⁴⁹
850.4300	Terrestrial Field				Not required
850.4450	Aquatic Field				Not required
850.4025	Target Area Phytotoxicity				Not required
835.2120	Hydrolysis	43189231			See endnote ⁵⁰
835.2240	Photodegradation in Water	44934201 49401601	FMC Corporation	OLD PAY	See endnote ⁵¹
835.2410	Photodegradation in Soil				See endnote ⁵²
835.2370	Photodegradation in Air				Not required
835.4100	Aerobic Soil Metabolism	43189232 44165034 44633504		OLD OLD OLD	See endnote ⁵³
835.4200	Anaerobic Soil Metabolism				Not required ⁵⁴
835.4300	Aerobic Aquatic Metabolism	44419016		OLD	See endnote ⁵⁵

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 17 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
835.4400	Anaerobic Aquatic Metabolism	49397601	FMC Corporation		See endnote ⁵⁶
835.1230	Leaching/Adsorption/Desorption	43189233 44165036 44165037		OLD OLD OLD	See endnote ⁵⁷
835.1410	Volatility – Laboratory				Not required
835.8100	Volatility – Field				Not required
835.6100	Soil Field Dissipation Study	44165039 44165049 44419017		OLD OLD OLD	See endnote ⁵⁸
835.6200	Aquatic Sediment Field Dissipation Study	44654701 46253901	FMC Corporation	OLD PAY	See endnote ⁵⁹
835.6300	Forest Field Dissipation Study				Not required
835.6400	Combination and Tank Mixes				Not required
835.7100	Ground Water Monitoring				Not required
850.6100	Environmental Chemistry Methods	44165039 44165040 44165002 44165043 44419018		OLD OLD OLD OLD OLD	See endnote ⁶⁰

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 18 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1300	Nature of the Residue: Plants	43829718 43829719 43829723 44165044 44633503 46046716		OLD OLD OLD OLD OLD OLD	
860.1300	Nature of the Residue: Livestock	44165045 44165046		OLD OLD	
860.1850	Confined Rotational Crops	44165041		OLD	
860.1340	Residue Analytical Methods	43829721 43829725 43829727 43939206 44165048 44165056 44314801 44419022 44623401 44633505		OLD OLD OLD OLD OLD OLD OLD OLD OLD OLD	
860.1360	Multiresidue Method	44165047		OLD	

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 19 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1380	Storage Stability	43939207 44169701 44419021 44633507 46046714		OLD OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: artichoke, globe	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: asparagus	49446401	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: bushberry, subgroup 13-07B	46046708		OLD	
860.1500	Magnitude of the Residue in Plants: cacao	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: cactus	48499801	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: caneberry, subgroup 13-07A	45154301		OLD	
860.1500	Magnitude of the Residue in Plants: coconut	45691002 45691003		OLD OLD	

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 20 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: coffee	46233501	IR-4	PL	
		46233502	IR-4	PL	
		46233503	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: fruit, citrus, group 10-10	45691005		OLD	
860.1500	Magnitude of the Residue in Plants: fruits, pome, group 11-10	45691004		OLD	
860.1500	Magnitude of the Residue in Plants: fruit, small vine climbing, subgroup 13-07F, except fuzzy kiwifruit	45691007		OLD	
860.1500	Magnitude of the Residue in Plants: fruit, stone, group 12-12	45691001		OLD	

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 21 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: grain, cereal, group 15	43829720		OLD	
		43829724		OLD	
		43939205		OLD	
		44165051		OLD	
		44165055		OLD	
		44419023		OLD	
		44419025		OLD	
		44419026		OLD	
		44419028		OLD	
		44419029		OLD	
		44419030		OLD	
		44419031		OLD	
		44633506		OLD	
		44654702		OLD	
		44963202		OLD	
		45944803		OLD	
		46641101	FMC Corporation	PAY	
		46641102	FMC Corporation	PAY	

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Oct. 4, 2018



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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 22 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: grain, cereal, forage, fodder, and straw group 16 including quinoa and Phyllis	43829720	FMC Corporation	OLD	
		43829724		OLD	
		43939205		OLD	
		44165051		OLD	
		44165055		OLD	
		44419023		OLD	
		44419025		OLD	
		44419026		OLD	
		44419028		OLD	
		44419029		OLD	
		44419030		OLD	
		44419031		OLD	
		44633506		OLD	
		44654702		OLD	
		44963202		OLD	
		45944803		OLD	
		46641101		PAY	
		46641102		PAY	
860.1500	Magnitude of the Residue in Plants: grass, forage, fodder, hay, group 17	46046715		OLD	

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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 23 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: animal feed, nongrass, forage, hay, and seed, group 18	48397305	FMC Corporation	PAY	
860.1500	Magnitude of the Residue in Plants: herbs and spices, group 19	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: hops	45858601		OLD	
860.1500	Magnitude of the Residue in Plants: horseradish	46046701		OLD	
860.1500	Magnitude of the Residue in Plants: kava	46046701		OLD	
860.1500	Magnitude of the Residue in Plants: kiwifruit	45691007		OLD	
860.1500	Magnitude of the Residue in Plants: tree nut, group 14-12	45691002 45691003		OLD OLD	
860.1500	Magnitude of the Residue in Plants: oilseed, group 20	45096602 46046709 46046710 46789601	IR-4	OLD OLD OLD OLD	
860.1500	Magnitude of the Residue in Plants: palm	48499801	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: peanut	46046713 46791802	FMC Corporation	OLD PAY	
860.1500	Magnitude of the Residue in Plants: peppermint and spearmint	49446402	IR-4	PL	

Signature

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Date

Oct. 4, 2018



UNITED STATES ENVIRONMENTAL PROTECTION AGENCY

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WASHINGTON, D.C. 20460

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 24 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: psyllium seed	43829720	FMC Corporation	OLD	
		43829724		OLD	
		43939205		OLD	
		44165051		OLD	
		44165055		OLD	
		44419023		OLD	
		44419025		OLD	
		44419026		OLD	
		44419028		OLD	
		44419029		OLD	
		44419030		OLD	
		44419031		OLD	
		44633506		OLD	
		44654702		OLD	
		44963202		OLD	
		45944803		OLD	
		46641101		PAY	
		46641102		PAY	

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 25 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: stevia	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: strawberrypear	48499801	IR-4	PL	
860.1500	Magnitude of the Residue in Plants: sugarcane	46046712		OLD	
860.1500	Magnitude of the Residue in Plants: tea	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: teff	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: ti	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: tropical and subtropical fruit (see label)	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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Form Approved OMB No. 2070-0060

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 26 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: vanilla bean	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: vegetable, brassica, leafy group 5	46046704		OLD	
860.1500	Magnitude of the Residue in Plants: vegetable, bulb, group 3-07	46046702		OLD	
860.1500	Magnitude of the Residue in Plants: vegetable, cucurbit, group 9	46046707		OLD	
860.1500	Magnitude of the Residue in Plants: vegetable, fruiting, group 8-10	46188101 46188102 46789801	IR-4 IR-4 IR-4	PL PL PL	
860.1500	Magnitude of the Residue in Plants: vegetable, leafy, except brassica, group 4	46046703 48481701 48499801	IR-4 IR-4	OLD PL PL	
860.1500	Magnitude of the Residue in Plants: vegetable, leaves of root and tuber, group 2	46046701		OLD	

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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DATA MATRIX

Date: Oct. 4, 2018

EPA Reg. No./ File Symbol: 89858-

Page 27 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1500	Magnitude of the Residue in Plants: vegetable, legume, group 6 (includes soybeans)	44165050 44419032 45944803 46046705 46046706 46188101 46641103 49559802 49559803	IR-4 FMC Corporation IR-4 IR-4	OLD OLD OLD OLD OLD PL PAY PL PL	
860.1500	Magnitude of the Residue in Plants: vegetable, foliage of legume, group 7	46046705 46188101	IR-4	OLD PL	
860.1500	Magnitude of the Residue in Plants: vegetable, root and tuber, group 1	45691008 46046701		OLD OLD	
860.1500	Magnitude of the Residue in Plants: wasabi	46046701		OLD	
860.1500	Magnitude of the Residue in Plants: tobacco	45691009		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: coconut	45691002 45691003		OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: coffee	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	

Signature

Name and Title

Ann M. Tillman, Consultant

Date

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DATA MATRIX

Date: Oct. 4, 2018	EPA Reg. No./ File Symbol: 89858-	Page 28 of 35
Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd. Xinle Town, Naxi District, Luzhou City Sichuan Province, 646300 P.R. China	Product: Maxunitech Carfentrazone-Ethyl Technical	
Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: citrus	45691006		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: apples	45691004		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: grape	45691007 45944802	"	OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: plum	45691001		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: cereal grain	43829722 43829726 44419024 44419027 44963203		OLD OLD OLD OLD OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: herbs and spices	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	

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DATA MATRIX

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EPA Reg. No./ File Symbol: 89858-

Page 29 of 35

Applicant's/Registrant's Name and Address: Oriental (Luzhou) Agrochemicals Co., Ltd.
Xinle Town, Naxi District, Luzhou City
Sichuan Province, 646300 P.R. China

Product:
Maxunitech Carfentrazone-Ethyl Technical

Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1520	Magnitude of the Residue in Processed Food or Feed: oilseeds	45096603 45944801 46046709 46046710 46233502 46233503	IR-4 IR-4	OLD OLD OLD OLD PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: peanut	46046713		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: peppermint and spearmint	49446402	IR-4	PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: sugarcane	46791801	FMC Corporation	PAY	
860.1520	Magnitude of the Residue in Processed Food or Feed: tea	46233501 46233502 46233503	IR-4 IR-4 IR-4	PL PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: tomatoes	46188102 46789801	IR-4 IR-4	PL PL	
860.1520	Magnitude of the Residue in Processed Food or Feed: soybeans	44165053		OLD	
860.1520	Magnitude of the Residue in Processed Food or Feed: potatoes	45691008		OLD	

Signature

Name and Title

Ann M. Tillman, Consultant

Date

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Ingredient: Carfentrazone-ethyl (CAS No. 12839-02-1, Chemical Code 128712)		

Guideline Reference Number	Guideline Study Name	MRID Number	Submitter	Status	Note
860.1480	Magnitude of the Residue in Meat, Milk, Poultry, and Eggs	44165052 44165054		OLD OLD	
860.1400	Nature and Magnitude of the Residue in Potable Water				Not required
860.1400	Magnitude of the Residue in Fish	46253902	FMC Corporation	PAY	
860.1400	Magnitude of the Residue in Plants Resulting from the Use of Irrigation Water				Not required
860.1460	Magnitude of the Residue in Food Handling Establishments				Not required
860.1900	Field Rotational Crops				Not required

Signature 	Name and Title Ann M. Tillman, Consultant	Date Oct. 4, 2018
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Endnotes for Data Matrix for Maxunitech Carfentrazone-Ethyl Technical

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- ¹ **830.1650** – Per OPPTS 830.1000, these data are not required for the registration of a technical product. See 830.1620 for production information.
- ² **830.6316** - Oriental (Luzhou) requests a waiver from the requirement of this study because carfentrazone-ethyl does not have the chemical bonds or functional groups associated with explosive chemicals.
- ³ **830.6319** - This data requirement is required when the product is an emulsifiable liquid and to be diluted with petroleum solvents. Although Maxunitech Carfentrazone-Ethyl Technical is a liquid, it is not an emulsifiable liquid to be diluted with petroleum solvents. Therefore this data requirement is not applicable.
- ⁴ **830.6321** – These data are not applicable to a technical grade material.
- ⁵ **830.7370** - Oriental (Luzhou) requests a waiver for the dissociation constant of carfentrazone-ethyl because the chemical does not contain any function groups that would dissociate.
- ⁶ **830.7520** - Oriental (Luzhou) requests a waiver for this data requirement. Maxunitech Carfentrazone-Ethyl Technical is not water-insoluble and is not a fibrous material.
- ⁷ **870.1100** - The study cited is acceptable and satisfies the data requirement as per the Nov. 17, 2015 Carfentrazone-Ethyl: Human Health Risk Assessment in Support of Application to Globe Artichoke, Asparagus, Mint, Psyllium, Quinoa and Teff and Updates to Several Crop Group (CG) or Subgroup (CSG) Designations (DP Barcode D425574) (2015 Human Health RA).
- ⁸ **870.1200** - The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁹ **870.1300** - The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ¹⁰ **870.2400** - The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ¹¹ **870.2500** - The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ¹² **870.2600** - The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ¹³ **850.2100** – The studies cited are acceptable and satisfy the data requirement as per the June 14, 2016 Carfentrazone-Ethyl: Preliminary Ecological Risk Assessment for Registration Review (DP Barcode 430704) (2016 Ecotox RA). Data on end-use products are not cited as these data were not acceptable and not required.
- ¹⁴ **850.2200** – The studies cited are acceptable and satisfy the data requirement as per the 2016 Ecotox RA.
- ¹⁵ **850.2300** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the 2016 Ecotox RA.
- ¹⁶ **850.1075** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the 2016 Ecotox RA.
- ¹⁷ **850.1010** – The studies cited are acceptable and satisfy the data requirement as per the 2016 Ecotox RA.
- ¹⁸ **850.1025, 850.1035, 850.1045, 850.1055, 850.1075** – The studies cited are acceptable and satisfy the data requirement as per the 2016 Ecotox RA.
- ¹⁹ **850.1300** – The studies cited are supplemental but appear to satisfy the data requirement as per the 2016 Ecotox RA as this data requirement was not identified as a data gap.

Endnotes for Data Matrix for Maxunitech Carfentrazone-Ethyl Technical

- ²⁰ **850.1350** – The study cited is acceptable and satisfies the data requirement as per the 2016 Ecotox RA; no data have been submitted on parent as degradate data were required to satisfy this requirement.
- ²¹ **850.1400** – The studies cited are acceptable or supplemental, but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ²² **850.1400** – According to the 2016 Ecotox RA, no data have been submitted on parent, nor have data been required and the endpoint is calculated using the acute to chronic ratio. Degradate data were not cited as these data were not required in the 2012 Registration Review Data Call-In (DCI) and EPA granted a waiver for carfentrazone acid data in the Dec 12, 2011 Response to Public Comments on the Registration Review Preliminary Problem Formulation for Environmental Fate, Ecological risk, Endangered Species, and Drinking Water Exposure Assessments for Carfentrazone-Ethyl (DP Barcode 390532) (2011 Eco Response to Comments).
- ²³ **850.1500** – According to the 2016 Ecotox RA, no data have been submitted, nor have data been required on the parent. Degradate data were waived for carfentrazone acid data in the 2011 Eco Response to Comments.
- ²⁴ **850.1710, 850.1730, 850.1850** – The study cited is acceptable and satisfies the data requirement as per the 2016 Ecotox RA.
- ²⁵ **850.1735** – According to the 2011 Eco Response to Comments, this data requirement is waived.
- ²⁶ **850.1735** – According to the 2011 Eco Response to Comments, this data requirement is waived.
- ²⁷ **850.3020** – The studies cited are acceptable or supplemental but satisfies the data requirement as per the 2016 Ecotox RA.
- ²⁸ **850.3030, 850.3040, N/A** – The December 2017 Carfentrazone Interim Registration Review Decision Case Number 7226 (Interim Decision) states that this requirement is a data gap. Oriental (Luzhou) will commit to satisfying this data requirement after it receives its registration and EPA has issued a Data Call-In for these data.
- ²⁹ **870.6200** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ³⁰ **870.3100** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³¹ **870.3150** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA. Chronic dog data are not cited as these data are no longer required as per the revisions to 40 CFR Part 158 in 2007.
- ³² **870.3200** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ³³ **870.3465** – The 2015 Human Health RA stated that HED HASPOC concluded that these data were not required for carfentrazone.
- ³⁴ **870.6200** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³⁵ **870.4100** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA. Chronic dog data are not cited as these data are no longer required as per the revisions to 40 CFR Part 158 in 2007.
- ³⁶ **870.4200** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³⁷ **870.3700** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ³⁸ **870.3800** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.

Endnotes for Data Matrix for Maxunitech Carfentrazone-Ethyl Technical

- ³⁹ **870.5100** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA. Note: Although formulation testing data are not required; these data were cited.
- ⁴⁰ **870.5300, 870.5375** – The studies cited are acceptable and satisfy the data requirement as per the 2015 Human Health RA.
- ⁴¹ **870.5385, 870.5395, 870.5450, 870.5550** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁴² **870.7485** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁴³ **870.7800** – The study cited is acceptable and satisfies the data requirement as per the 2015 Human Health RA.
- ⁴⁴ **850.4100** – The studies cited are acceptable or supplemental, but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ⁴⁵ **850.4150** – The studies cited are acceptable or supplemental, but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ⁴⁶ **850.4400, 850.4500** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the 2016 Ecotox RA.
- ⁴⁷ **850.4100** – The studies cited are acceptable or supplemental, but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ⁴⁸ **850.4150** – The studies cited are acceptable or supplemental, but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ⁴⁹ **850.4400, 850.4500** – The studies cited are acceptable or supplemental, but satisfy the data requirement as per the 2016 Ecotox RA.
- ⁵⁰ **835.2120** – The study cited is acceptable and satisfies the data requirement as per the 2016 Ecotox RA.
- ⁵¹ **835.2240** – The studies cited are acceptable and satisfy the data requirement as per the 2016 Ecotox RA.
- ⁵² **835.2410** – The previously submitted study was classified as unacceptable as per the 2016 Ecotox RA. However, no additional data are required because biodegradation rates are expected to outpace photolysis rates.
- ⁵³ **835.4100** – The studies cited are upgradable or supplemental but appear to satisfy the data requirement as per the 2016 Ecotox RA.
- ⁵⁴ **835.4200** – According to the 2016 Ecotox RA, no data have been submitted to satisfy this data requirement. However, no data are required to be submitted because additional data would not be expected to change the exposure assessment.
- ⁵⁵ **835.4300** – The study cited is supplemental but satisfies the data requirement as per the 2016 Ecotox RA.
- ⁵⁶ **835.4400** – The study cited is supplemental but satisfies the data requirement as per the 2016 Ecotox RA.
- ⁵⁷ **835.1230** – The previously submitted carfentrazone-ethyl study was classified as unacceptable as per the 2016 Ecotox RA. However, no additional data are required because of the short half-life of carfentrazone. Supplemental adsorption/desorption data for carfentrazone acid are cited.
- ⁵⁸ **835.6100** – The studies cited are supplemental or acceptable and additional information can upgrade the supplemental studies to acceptable as per the 2016 Ecotox RA.
- ⁵⁹ **835.6200** – The studies cited are supplemental or upgradable and additional information can upgrade the supplemental studies to acceptable as per the 2016 Ecotox RA.

Endnotes for Data Matrix for Maxunitech Carfentrazone-Ethyl Technical

⁶⁰ **850.6100** – The studies cited are supplemental or acceptable and additional information can upgrade the supplemental studies to acceptable as per the 2016 Ecotox RA.

**Attachment to Data Matrix for Maxunitech Carfentrazone-Ethyl Technical dated
Oct. 4, 2018
– Citations for Guidelines 875.1100, 875.1300, 875.1500, 875.1600, and 875.1700**

Submitter: Agricultural Handler Exposure Task Force
Status: PAY

MRID Number	48289608	49304709
46448201	48289609	49304710
46448202	48289610	49304711
46634101	48289611	49304712
46634102	48289612	49304713
46634103	48289613	49304714
46634104	48289614	49304715
46634105	48289615	49338201
46634106	48289616	49352701
46763701	48303501	49352702
46763702	48303502	49364301
47172401	48303503	49462401
47172402	48303504	49462402
47172403	48313801	49462403
47172404	48314201	49462404
47172405	48326701	49462405
47172406	48326801	49462406
47212801	48706701	49466401
47212802	48706702	49472001
47212803	48706703	49478601
47212804	48706704	49478602
47212805	48713901	49497201
47212806	48725101	49609201
47212807	49001401	49609202
47212808	49044501	49609203
47212809	49044502	49667001
47259801	49044503	49667002
47309201	49084501	49667003
47309202	49084502	49680501
47309203	49084503	49687701
47309204	49084504	49711901
47309205	49084505	49761201
47309206	49084506	49761202
47348701	49117001	49789001
47455901	49117002	49841201
47455902	49117003	49841202
47714401	49117004	49841203
47714402	49117005	49893001
47947801	49173001	49893002
47947802	49185401	50121601
47947803	49304701	50121602
48164901	49304702	50121603
48200401	49304703	50121604
48200402	49304704	50182201
48200403	49304705	50217801
48289601	49304706	
48289602	49304707	
48289604	49304708	